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METHOD FOR THE RELATIVE DETERMINATION OF
PHYSICOCHEMICAL PROPERTIES

Joos et al.

Appl. No.: 10/688,137

Atty Docket: WWELL78.007C1

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$$[Ab] = \frac{[\alpha - Ab - Ab]}{[\alpha - Ab] K_{\alpha - Ab - Ab}} \quad \text{eg. (1)}$$

$$K_{Ab - Ag} = \frac{[Ag - Ab]}{[Ab][Ag]} \quad \text{eg. (2)}$$

$$= \frac{[Ag - Ab][\alpha - Ab] K_{\alpha - Ab - Ab}}{[Ag][\alpha - Ab - Ab]} \quad \text{eg. (3)}$$

$$= \frac{[Ag - Ab]}{[\alpha - Ab - Ab]} \cdot \frac{[\alpha - Ab]}{[Ag]} \cdot K_{\alpha - Ab - Ab}$$

$$= \frac{V_1}{V_2} \cdot \text{const}$$

Fig.1

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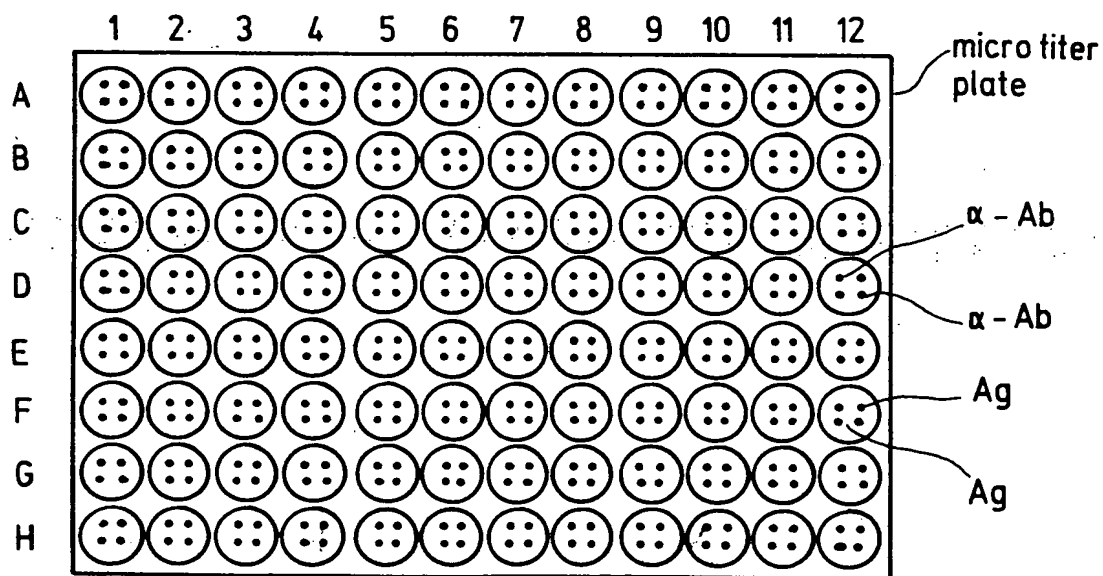
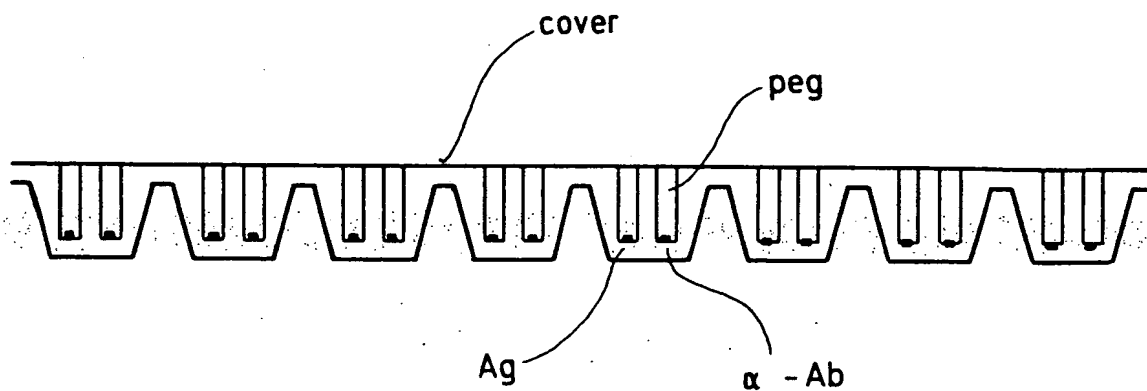


Fig.2

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| Antibody | Antigen-Antibody product measured in relative integrated spot values V1 | Antibody concentration, measured in relative integrated spot values V2 | Relative Affinity expressed as: V1/V2 | Dissoziation konstant determined with surface plasmon resonance technology (BIAcore) |
|----------|--|---|---|---|
| 1 | 15,4 | 0,67 | 23 | 86 nM |
| 2 | 58,5 | 1,35 | 43,3 | 11 nM |
| 3 | 37,2 | 0,25 | 148,8 | 6,3 nM |
| 4 | 5,8 | 8,6 | 0,7 | 250 nM |

Fig.3

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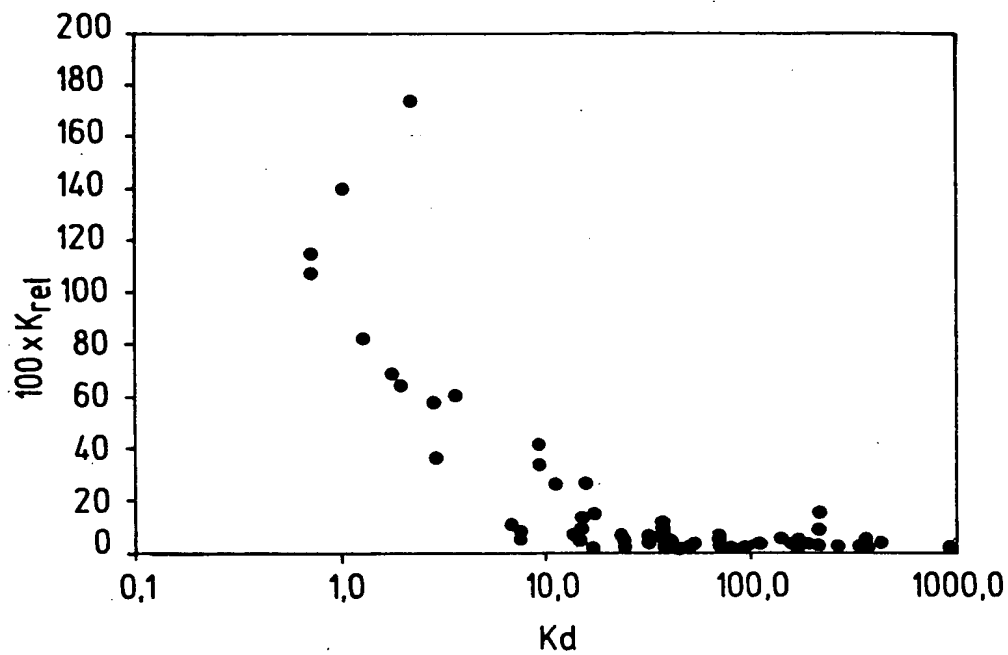


Fig.4